

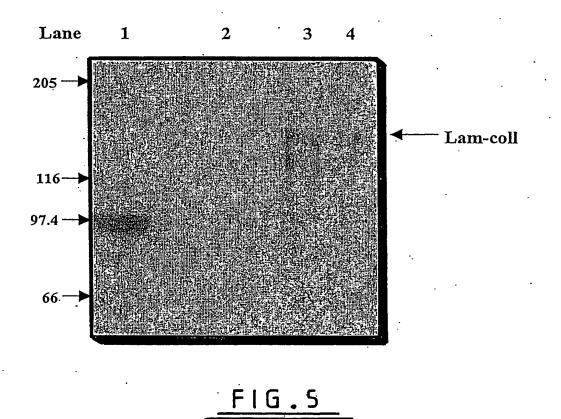
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FIG. 3 cont;

MMSFVQKGSWLLLALLHPTIILATSLSLFLQ RPNSRENGGTENMFVMYLGNKDASRDYIGMA V V D G Q L T C V Y N L G D R E A E L Q V D Q I L T K S E T K EAVMDRVKFQRIYQFARLNYTKGATSSKPET P G V Y D M D G R N S N T L L N L D P E N V V F Y V G G Y P P DFKLPSRLSFPPYKGCIELDDLNENVLSLYN F K K T F N L N T T E V E P C R R R K E E S D K N Y F E G T G YARVPTQPHAPIPTFGQTIQTTVDRGLLFFA ENGDRFISLNIEDGKLMVRYKLNSELPKERG G D A I N N G R D H S I Q I K I G K L Q K R M W I N V D V IDGEVFDFSTYYLGGIPIAIRERFNIST A F R G C M K N L K K T S G V V R L N D T V G V T K K C S E WKLVRSASFSRGGQLSFTDLGLPPTDHLQA G F Q T F Q P S G I L L D H Q T W T R N L Q V T L E D G Y LSTSDSGGPIFKSPQTYMDGLLHYVSVIS NSGLRLLIDDQLLRNSKRLKHISSSRQSLR G G S N F E G C I S N V F V Q R L S L S P E V L D L T S N S KRDVSLGGCSLNKPPFLMLLKGSTRFNKTK TFRINQLLQDTPVASPRSVKVWQDANGQGPQ PKGDPGPPGIPGRNGDPGIPGQPGSPGSPG PGICESCPTGPQNYSPQYDSYDVKSGVAVG G L A G Y P G P A G P P G P P G P P G T S G H P G S P G S P G YQGPPGEPGQAGPSGPPGAIGPSGPAGK DGESGRPGRPGERGLPGPPGIKGPAGIPGFP G M K G H R G F D G R N G E K G E T G A P G L K G E N G L P G ENGAPGPMGPRGAPGERGRPGLPGAAGARGN D G A R G S D G Q P G P P G P P G T A G F P G S P G A K G E V G P A G S P G S N G A P G Q R G E P G P Q G H A G A Q G P P G P P G I N G S P G G K G E M G P A G I P G A P G L M G A R G P P G P A G A N G A P G L R G G A G E P G K N G A K G E P G P R E R G E A G I P G V P G A K G E D G K D G S P G E P G A N G LPGAAGERGAPGFRGPAGPNGIPGEKGPAGE RGAPGPAGPRGAAGEPGRDGVPGGPGMRGMP GSPGGPGSDGKPGPPGSQGESGRPGPPGPSG P R G Q P G V M G F P G P K G N D G A P G K N G E R G G P G G PGPQGPPGKNGETGPQGPPGPTGPGGDKGDT G P P G P Q G L Q G L P G T G G P P G E N G K P G E P G P K G DAGAPGAPGGKGDAGAPGERGPPGLAGAPGL RGGAGPPGPEGGKGAAGPPGPAAGTPGLQ G M P G E R G G L G S P G P K G D K G E P G G P G A D G V P G KDGPRGPTGPIGPPGPAGQPGDKGEGGAPGL PGIAGPRGSPGERGETGPPGPAGFPGAPGQN G E P G G K G E R G A P G E K G E G G P P G V A G P P G G S G AGPPG'PQGVKGERGSPGGPGAAGFPGARGL ·PGPPGSNGNPGPPGPSGSPGKDGPPGPAGNT G A P G S P G V S G P K G D A G Q P G E K G S P G A Q G P P G APGPLGIAGITGARGLAGPPGMPGPRGSPGP G V K G E S G K P G A N G L S G E R G P P G P Q G L P G L A TAGEPGRDGNPGSDGLPGRDGSPGGKGDRG NGSPGAPGAPGHPGPPGPVGPAGKSGDRGE G P A G P A G A P G P A G S R G A P G P Q G P R G D K G E T ERGAAGIKGHRGFPGNPGAPGSPGPAGQQ I G S P G P A G P R G P V G P S G P P G K D G T S G H P G P

FIG 4 cont;



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At gatgagettt gtgcaaaagg ggagctggct acttctcgct ctgcttcatc ccactattat tttggcatgc teggaagact ggaagettgt gegatetgee teatteteea gaggaggaca attgagttte actgatttgg gcttaccacc tactgaccac ctccaggcct catttggatt tcagaccttt caacccagtg gcatattatt agatcatcag acatggacaa ggaacctgca ggtcactctg gaagatggtt acattgaatt gagcaccagc gatagcggcg gcccaatttt taaatctcca cagacgtata tggatggttt actgcattat gtatctgtaa taagcgacaa ctctggacta cggcttctca tcgatgacca gcttctgaga aatagcaaaa ggctaaaaca catttcaagt tcccggcagt ctctgcgtct gggcgggagc aattttgagg gttgtattag caatgttttt gtccagaggt tatcactgag tcctgaagtc ctagatttga ccagtaactc tctcaagaga gatgtgtccc tgggaggctg cagtttaaac aaaccacctt ttctaatgtt gcttaaaggt tctaccaggt ttaacaagac caagactttt cgtatcaacc agctgttgca ggacacacca gtggcctccc caaggagcgt gaaggtgtgg caagatgctaaggtcaagg acctcaaggc cccaagggag atccaggccc tcctggtatt cctgggagaa atggtgaccc tggtattcca ggacaaccag ggtcccctgg ttctcctggc ccccctggaa tctgtgaatc atgccctact ggtcctcaga actattctcc ccagtatgat tcatatgatg tcaagtctgg agtagcagta ggaggactcg caggetatee tggaccaget ggeceeccag gecetecegg teeceetggt acatetggte atcetggtte ecetggatet ecaggatace aaggaceee tggtgaacet gggcaagctg gtccttcagg ccctccagga cctcctggtg ctataggtcc atctggtcct gctggaaaag atggagaatc aggtagaccc ggacgacctg gagagcgagg attgcctgga cctccaggta tcaaaggtcc agctgggata cctggattcc ctggtatgaa aggacacaga ggcttcgatg gacgaaatgg agaaaagggt gaaacaggtg ctcctggatt aaagggtgaa aatggtette caggegaaaa tggageteet ggacecatgg gtecaagagg ggeteetggt gagcgaggac ggccaggact teetgggget geaggtgete ggggtaatga eggtgetega ggcagtgatg gtcaaccagg ccctcctggt cctcctggaa ctgccggatt ccctggatcc cctggtgcta agggtgaagt tggacctgca gggtctcctg gttcaaatgg tgcccctgga caaagaggag aacctggacc tcagggacac gctggtgctc aaggtcctcc tggccctcct gggattaatg gtagtcctgg tggtaaaggc gaaatgggtc ccgctggcat tcctggagct cctggactga tgggagcccg gggtcctcca ggaccagccg gtgctaatgg tgctcctgga ctgcgaggtg gtgcaggtga gcctggtaag aatggtgcca aaggagagcc cggaccacgt ggtgaacgcg gtgaggctgg tattccaggt gttccaggag ctaaaggcga agatggcaag gatggatcac ctggagaacc tggtgcaaat gggcttccag gagctgcagg agaaaggggt gcccctgggt tccgaggacc tgctggacca aatggcatcc caggagaaaa gggtcctgct ggagagegtg gtgctccagg ccctgcaggg cccagaggag ctgctggaga acctggcaga gatggcgtcc ctggaggtcc aggaatgagg ggcatgcccg gaagtccagg aggaccagga agtgatggga aaccagggcc tcccggaagt caaggagaaa gtggtcgacc aggtcctcct gggccatctg gtccccgagg tcagcctggt gtcatgggct tccccggtcc taaaggaaat gatggtgctc ctggtaagaa tggagaacga ggtggccctg gaggacctgg ccctcagggt cctcctggaa agaatggtga aactggacct caaggacccc cagggcctac tgggcctggt ggtgacaaag gagacacagg accccctggt ccacaaggat tacaaggctt gcctggtaca ggtggtcctc caggagaaaa tggaaaacct ggggaaccag gtccaaaggg tgatgccggt gcacctggag ctccaggagg caagggtgat gctggtgccc ctggtgaacg tggacctcct ggattggcag gggccccagg acttagaggt ggagctggtc cccctggtcc cgaaggagga aagggtgctg ctggtcctcc tgggccacct ggtgctgctg gtactcctgg tctgcaagga atgcctggag aaagaggagg tcttggaagt cctggtccaa agggtgacaa gggtgaacca ggcggcccag gtgctgatgg tgtcccaggg aaagatggcc caaggggtcc tactggtcct attggtcctc ctggcccagc tggccagcct ggagataagg gtgaaggtgg tgcccccgga cttccaggta tagctggacc tcgtggtagc cctggtgaga gaggtgaaac tggccctcca ggacctgctg gtttccctgg tgctcctgga cagaatggtg aacctggtgg taaaggagaa agaggggctc cgggtgagaa aggtgaagga ggccctcctg gagttgcagg accccctgga ggttctggac ctgctggtcc tcctggtccc caaggtgtca aaggtgaacg tggcagtcct ggtggacctg gtgctgctgg cttccctggt gctcgtggtc ttcctggtcc tcctggtagt aatggtaacc caggaccccc aggtcccagc ggttctccag gcaaggatgg gcccccaggt cctgcgggta acactggtgc tcctggcagc cctggagtgt ctggaccaaa aggtgatgct

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FIG.6 cont;

MMSFVQKGSWLLLALLHPTILACSEDWKLV RSASFSRGGQLSFTDLGLPPTDHLQASFGFQ TFQPSGILLDHQTWTRNLQVTLEDGYIELST SDSGGPIFKSPQTYMDGLLHYVSVISDNSGL RLLIDDQLLRNSKRLKHISSSRQSLRLGGSN F E G C I S N V F V Q R L S L S P E V L D L T S N S L K R D V SLGGCSLNKPPFLMLLKGSTRFNKTKTFRIN Q L L Q D T P V A S P R S V K V W Q D A N G Q G P Q G P K G D P G P P G I P G R N G D P G I P G Q P G S P G P P G I C SCPTGPQNYSP QYDSYDVKSGVAVGGLAGY PGPAGPPGPP G PPGTSGHPGSPGSPGYQGPP G E P G Q A G P S G P P G P P G A I G P S G P A G K D G E S G RPGRPGERGLPGPPGIKGPAGIPGFPGMKGH RGFDGRNGEKGETGAPGLKGENGLPGENGAP PMGPRGAPGERGRPGLPGAAGARGNDGARG D G Q P G P P G P P G T A G F P G S P G A K G E V G SNGAPGQRGEPGPQGHAGAQGPPGP P G G K G E M G P A G I P G A P G L M G A R G P P G P A G G A P G L R G G A G E P G K N G A K G E P G P R G E R G E IPGVPGAKGEDGKDGSPGEPGANGLPGAA ERGAPGFRGPAGPNGIPGEKGPAGERGAPG AGPRGAAGEPGRDGVPGGPGMRGMPGSPGG G S D G K P G P P G S Q G E S G R P G P P G P S G P R G Q P V M G F P G P K G N D G A P G K N G E R G G P G G P Q G PGKNGETGPQGPPGPTGPGGDKGDTGPPGP QGLQGLPGTGGPPGENGKPGEPGPKGDAGAP APGGKGDAGAPGERGPPGLAGAPGLRGGAG PGPEGGKGAAGPPGPPGAAGTPGLQGMPGE RGGLGSPGPKGDKGEPGGPGADGVPGKDGPR PTGPIGPPGPAGQPGDKGEGGAPGLPGIAG P R G S P G E R G E T G P P G P A G F P G A P G Q N G E P G G KGERGAPGEKGEGGPPGVAGPPGGSGPAGPP G P Q G V K G E R G S P G G P G A A G F P G A R G L P G SNGNPGPPGPSGSPGKDGPPGPAGNTGAPGS PGVSGPKGDAGQPGEKGSPGAQGPPGAPGPL G I A G I T G A R G L A G P P G M P G P R G S P G P Q G V K G SGKPGANGLSGERGPPGPQGLPGLAGTAGE P G R D G N P G S D G L P G R D G S P G G K G D R G E N G S P G A P G A P G H P G P P G P V G P A G K S G D R G E S G P A G P A G A P G P A G S R G A P G P Q G P R G D K G E T G E R G A AGIKGHRGFPGNPGAPGSPGPAGQQGAIGSP G P A G P R G P V G P S G P P G K D G T S G H P G P I G P P G P R G N R G E R G S E G S P G H P G Q P G P P G P P G A P G P C C G G V G A A A I A G I G G E K A G G F A P Y Y G D E P M D F K I N T D E I M T S L K S V N G Q I E S L I S P D G S R K N PARNCRDLKFCHPELKSGEYWVDPNQGCKLD A I K V F C N M E T G E T C I S A N P L N V P R K H W W T D S SAEKKHVWFGESMDGGFQFSYGNPELPEDVL D V Q L A F L R L L S S R A S Q N I T Y H C K N S I A Y M D Q ASGNVKKALKLMGSNEGEFKAEGNSKFTYTV LEDGCTKHTGEWSKTVFEYRTRKAVRLPIVD IAPYDIGGPDQEFGVDVGPVCFL

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<b>atg</b> aagtc	cagcggcctc	ttccccttcc	tggtgctgct	tgccctggga
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aagaatggag aacgaggtgg ccctggagga cctggccctc agggtcctcc tggaaagaat ggtgaaactg gacctcaagg acccccaggg cctactgggc ctggtggtga caaaggagac acaggacccc ctggtccaca aggattacaa ggcttgcctg gtacaggtgg tcctccagga gaaaatggaa aacctgggga accaggteca aagggtgatg ceggtgeace tggageteca ggaggeaagg gtgatgctgg tgcccctggt gaacgtggac ctcctggatt ggcaggggcc ccaggactta gaggtggagc tggtccccct ggtcccgaag gaggaaaggg tgctgctggt cctcctgggc cacctggtgc tgctggtact cctggtctgc aaggaatgcc tggagaaaga ggaggtcttg gaagtcctgg tccaaagggt gacaagggtg aaccaggcgg cccaggtgct gatggtgtcc cagggaaaga tggcccaagg ggtcctactg gtcctattgg tcctcctggc ccagctggcc agectggaga taagggtgaa ggtggtgeee eeggaettee aggtataget ggacctcgtg gtagccctgg tgagagaggt gaaactggcc ctccaggacc tgctggtttc cctggtgctc ctggacagaa tggtgaacct ggtggtaaag gagaaagagg ggctccgggt gagaaaggtg aaggaggccc tcctggagtt gcaggacccc ctggaggttc tggacctgct ggtcctcctg gtccccaagg tgtcaaaggt gaacgtggca gtcctggtgg acctggtgct gctggcttcc ctggtgctcg tggtcttcct ggtcctcctg gtagtaatgg taacccagga eccecaggte ccageggtte tecaggeaag gatgggeece caggteetge gggtaacact ggtgctcctg gcagccctgg agtgtctgga ccaaaaggtg atgctggcca accaggagag aagggatcgc ctggtgccca gggcccacca ggagetecag geceaettgg gattgetggg atcactggag caeggggtet tgcaggacca ccaggcatgc caggtcctag gggaagccct ggccctcagg gtgtcaaggg tgaaagtggg aaaccaggag ctaacggtct cagtggagaa cgtggtcccc ctggacccca gggtcttcct ggtctggctg gtacagctgg tgaacctgga agagatggaa accctggatc agatggtctt ccaggccgag atggatctcc tggtggcaag ggtgatcgtg gtgaaaatgg ctctcctggt geecetggeg etectggtea tecaggeeca cetggteetg teggtecage tggaaagagt ggtgacagag gagaaagtgg ccctgctggc cctgctggtg ctcccggtcc tgctggttcc cgaggtgctc ctggtcctca aggcccacgt ggtgacaaag gtgaaacagg tgaacgtgga gctgctggca tcaaaggaca tegaggatte eetggtaate caggtgeece aggtteteca ggeeetgetg gtcagcaggg tgcaatcggc agtccaggac ctgcaggccc cagaggacct gttggaccca gtggacctcc tggcaaagat ggaaccagtg gacatccagg teccattgga ecaccaggge etegaggtaa cagaggtgaa agaggatetg agggeteece aggecaceca gggcaaceag geeeteetgg aceteetggt gcccctggtc cttgctgtgg tggtgttgga gccgctgcca ttgctgggat tggaggtgaa aaagctggcg gttttgcccc gtattatgga gatgaaccaa tggatttcaa aatcaacac gatgagatta tgacttcact caagtctgtt aatggacaaa tagaaagcct cattagtcct gatggttctc gtaaaaaccc cgctagaaac tgcagagacc tgaaattctg ccatcctgaa ctcaagagtg gagaatactg ggttgaccct aaccaaggat gcaaattgga tgctatcaag gtattctgta atatggaaac tggggaaaca tgcataagtg ccaatccttt gaatgttcca cggaaacact ggtggacaga ttctagtgct gagaagaaac acgtttggtt tggagagtcc atggatggtg gttttcagtt tagctacggc aatcctgaac ttcctgaaga tgtccttgat gtgcagctgg cattccttcg acttctctcc agccgagett cccagaacat cacatatcac tgcaaaaata gcattgcata catggatcag gccagtggaa atgtaaagaa ggccctgaag ctgatggggt caaatgaagg tgaattcaag gctgaaggaa atagcaaatt

FIG.8 cont;

cacctacaca gttctggagg atggttgcac gaaacacact ggggaatgga gcaaaacagt ctttgaatat cgaacacgca aggctgtgag actacctatt gtagatattg cacctatga cattggtggt cctgatcaag aatttggtgt ggacgttggc cctgtttgct ttttataa

FIG.8cont;

Met K S S G L F P F L V L L A L G T L A P W A V E G S G K S F K A G V C P P K K S A Q C L R Y K K P E C Q S D W Q C P G K K R C C P D T C G I K C L D P V D T P N P T R R K P G K C P V T Y G Q C L Met L N P P N F C E Met D G Q C K R D L K C C Met G Met C G K S C V S P V K A

AVEGGCSHLGQSYADRDVWKPEPCQICVCD SVLCDDIICDDQELDCPNPEIPFGECCA V C P Q P P T A P T R P P N G Q G P Q G P K G D P G P P G I PGRNGDPGIPGQPGSPGSPGPPGICESCPT G P Q N Y S P Q Y D S Y D V K S G V A V G G L A G Y P G P A G P P G P P G P S G H P G S P G S P G Y Q G P P G E P GQAGPSGPPGPPGAIGPSGPAGKDGESGRP G R P G E R G L P G P P G I K G P A G I P G F P G Met K G H RGFDGRNGEKGETGAPGLKGENGLPGENGA P G P Met G P R G A P G E R G R P G L P G A A G A R G N D G ARGSDGQPGPPGTAGFPGSPGAKGEVG PAGSPGSNGAPGQRGEPGPQGHAGAQGPPG PPGINGSPGGKGE Met GPAGIPGAPGL Met GA RGPPGPAGANGAPGLRGGAGEPGKNGAKGE PGPRGERGEAGIPGVPGAKGEDGKDGSPGE PGANGLPG.AAGERGAPGFRGPAGPNGIPGE KGPAGERGAPGPAGPRGAAGEPGRDGVPGG P G Met R G Met P G S P G G P G S D G K P G P P G S Q G E S G R P G P P G P S G P R G Q P G V Met G F P G P K G N D G A PGKNGERGGPGGPQGPPGKNGETGPQGP PGPTGPGGDKGDTGPPGPQGLQGLPGTGGP P G E N G K P G E P G P K G D A G A P G A P G G K G D A G A PGERGPPGLAGAPGLRGGAGPPGPEGGKGA AGPPGPPGAAGTPGLOGMetPGERGGLGSPG P K G D K G E P G G P G A D G V P G K D G P R G P T G P I G P P G P A G Q P G D K G E G G A P G L P G I A G P R G S P G ERGETGPPGPAGFPGAPGQNGEPGGKGERG A P G E K G E G G P P G V A G P P G G S G P A G P P G P Q G V K G E R G S P G G P G A A G F P G A R G L P G P P G S N G N P G P P G P S G S P G K D G P P G P A G N T G A P G S P G V S G P K G D A G Q P G E K G S P G A Q G P P G A P G P I A G I T G A R G L A G P P G Met P G P R G S P G P Q G V K G E S G K P G A N G L S G E R G P P G P Q G L P G L A G T A G E P G R D G N P G S D G L P G R D G S P G G K G D R G E N G S P G A P G A P G H P G P P G P V G P A G K S G D R G E S

FIG.9 cont;

